

RESEARCH TO OPERATIONS

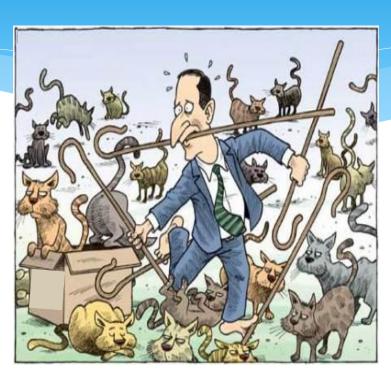
Daniel Wunder R2O Project Manager Aug 2, 2012





Overview

- * R2O Process
- * Sample Schedule
- * PI Commitment
- * Lessons Learned
- * Available Resources
- * IOC Operations and Maintenance





R2O Process

Intent

Provide a Climate Data Record (CDR) to the public that is Transparent and Scientifically Defensible

* It's all about the:

Data, Source Code, and Documentation

* Six Phases:

- 1) Assess 2) Prepare 3) Transfer

- 4) Verify 5) Archive 6) Access

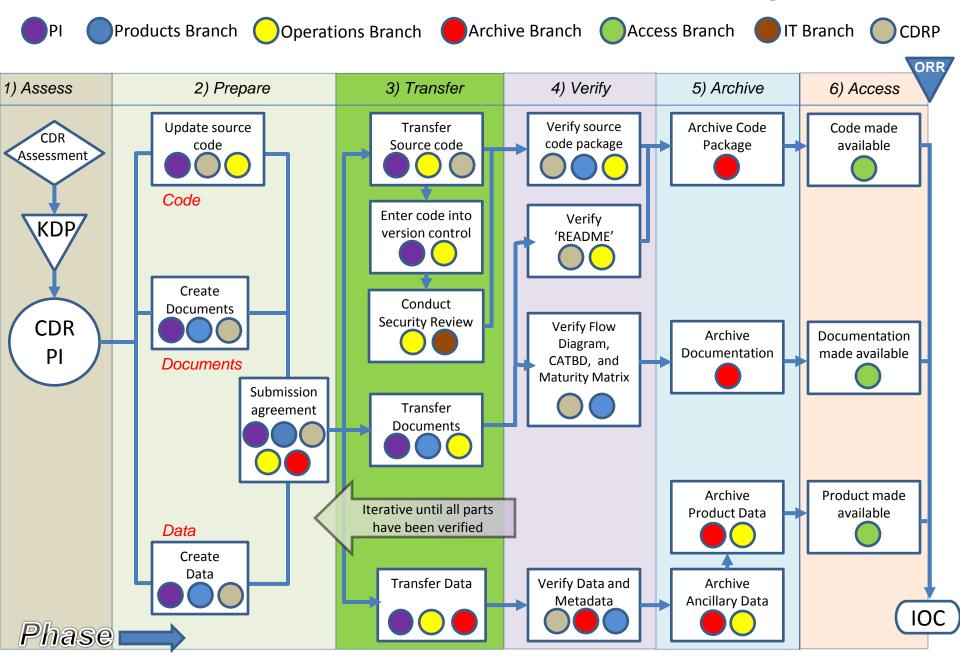


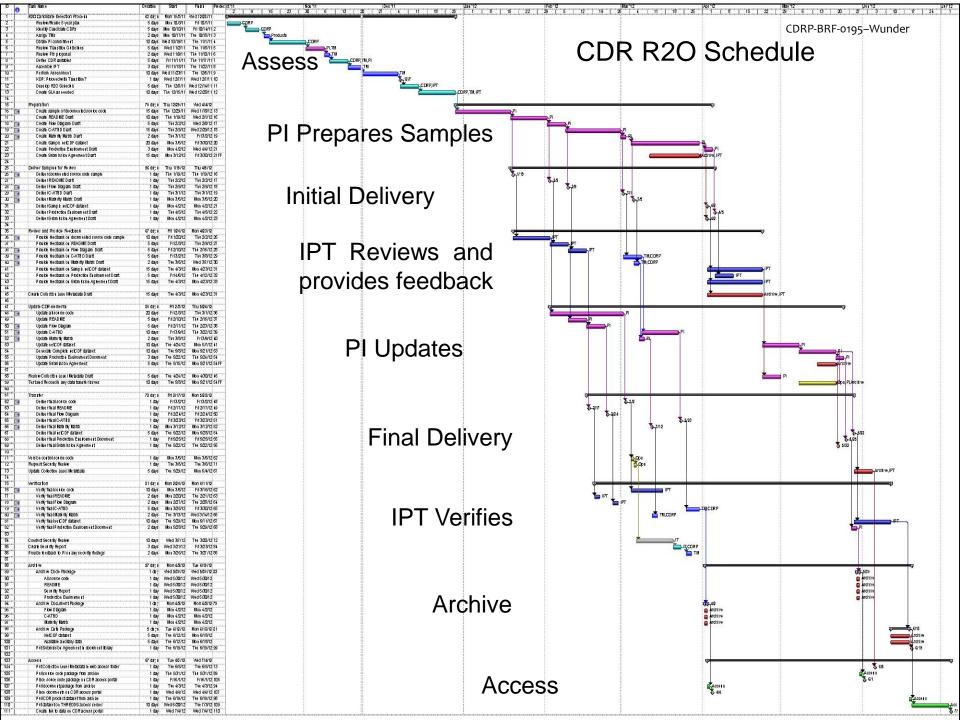
R2O Process - Phases

- 1) Assess
 - Assemble IPT: PI, PI Assistant, SME, PM, Ops, Archive, Access
 - * Assess current data, documentation, source code; develop transition schedule
- 2) Prepare
 - PI Updates Source Code (CDRP coding standards, README)
 - * PI Creates Documentation (CATBD, Flow Chart, Maturity Matrix)
 - PI Preps Data for delivery (netCDF Format, Metadata)
- 3) Transfer
 - * IPT creates submission agreement
 - PI transfers a copy of the Source Code, Documentation, and Data to NCDC
- 4) Verify
 - * IPT verifies Source Code, Documentation, and Data
 - Iterative process until code, documentation, and data meet standards
- 5) Archive
 - NCDC preserves a copy of Source Code, Documentation and Data in the archive
- 6) Access
 - ORR, then provide public access to everything via the CDR access portal



CDR R2O Process Diagram





PI Commitment

- * Need PI commitment
 - Not a task the PI does alone, partnership with the integrated product team (IPT)
 - * PM coordinates with 5 Branches across 3 Divisions at NCDC to help facilitate the transition process
 - NCDC personnel spend 400-600 hours transitioning each CDR to IOC



Lessons Learned

- Start the process early
 - * Become familiar with the development guidelines on the CDR web page (R2O Guidelines, C-ATBD template, General Programming Standards, NetCDF metadata guidelines)
- * Communication
 - * FY13 and FY14 Transition Candidates are available
 - Meet with the NCDC IPT members, if you haven't already
 - * SMEs will work to fully understand the CDR even though they may not be an expert in the field
 - * IPT members should be familiar with the transition process and able to point out potential roadblocks



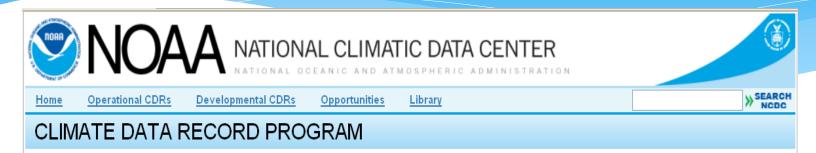
FY13/FY14 Transition Candidates

FY	PI	SME	CDR
2013	Key	Peng	Cryosphere Bundle
2013	Mittaz	Banzon	AVHRR CH3b-4-5 Radiance FCDR
2013	Vermote	Matthews	Vegetation Bundle
2013	Flynn	Zhao	Ozone Bundle
2013	Pilewskie	Zhao	Solar Irradiance Bundle
2013	Kummerow	Semunegus	Microwave Imager FCDR
2013	Sorooshian	Nelson	PERSIANN – precipitation
2014	Ferraro	Nelson	Hydrological Bundle
2014	Zou	Shi	Atmospheric Temp Bundle (MSU/AMSU/SSU)



Available Resources

http://www.ncdc.noaa.gov/cdr/guidelines.html



- Serving the Public
- Data
- Development Guidelines
- Contact Us

News



CDR Technical Interchange Meeting, April 19-20, 2011

Development Guidelines

CDR R2O Guidelines

CDR Maturity Matrix

CDR Climate Algorithm Theoretical Basis Document Template

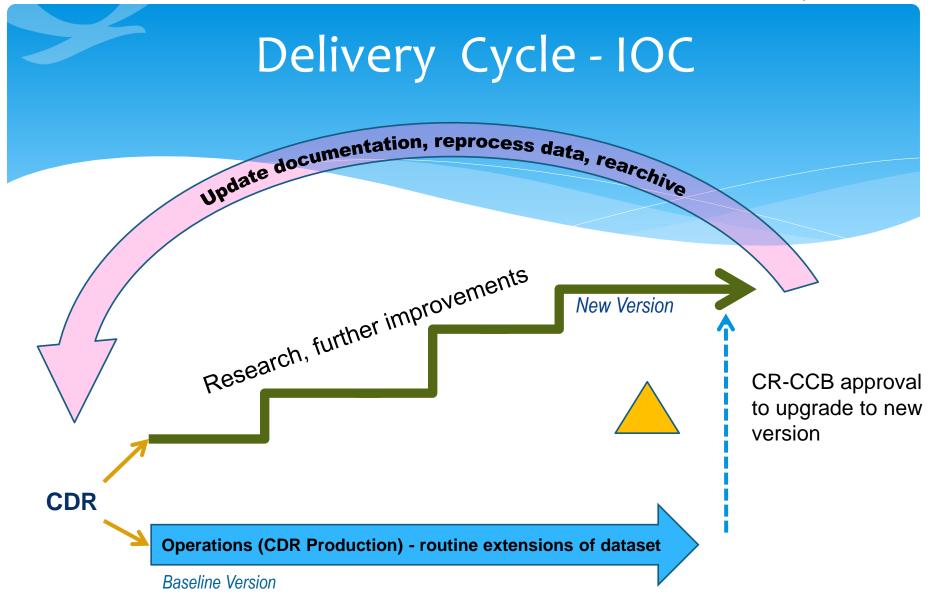
CDR General Programming Standards

CDR NetCDF Metadata Guidelines

CDR Teaming Matrix

Project Office Organization and Relationships Chart







Questions?

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